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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/725,362	12/03/2003	Shouji Yajima	109067.01	3110
	7590 03/08/2007		EXAMINER	
OLIFF & BERR P.O. BOX 19928	· · · · · · · · · · · · · · · · · · ·		LOPEZ, CARLOS N	
ALEXANDRIA, VA 22320			ART UNIT	PAPER NUMBER
÷			1731	
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	· DELIVER	Y MODE
3 MON	THS	03/08/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/725,362	YAJIMA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Carlos Lopez	1731				
The MAILING DATE of this communication ap	· · · · · · · · · · · · · · · · · · ·	vith the correspondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 136(a). In no event, however, may a will apply and will expire SIX (6) MO e, cause the application to become A	ICATION. I reply be timely filed INTHS from the mailing date of this communication. INTHS ABANDONED (35 U.S.C. § 133).				
Status		•				
1)⊠ Responsive to communication(s) filed on 20 £	December 2006.					
2a)⊠ This action is FINAL . 2b)☐ This	This action is FINAL . 2b) This action is non-final.					
3) Since this application is in condition for allowa	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.I	D. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1 and 2</u> is/are pending in the application.						
•	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-2</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers		•				
9) The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) acc	cepted or b) objected to	by the Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeya	ınce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	ction is required if the drawing	g(s) is objected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attache	ed Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documen						
3. Copies of the certified copies of the price		n received in this National Stage				
application from the International Burea * See the attached detailed Office action for a list	•	t received				
See the attached detailed Office action for a list	t of the certified copies no	r received.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) \prod Interview	Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)						
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Other:					

Application/Control Number: 10/725,362

Art Unit: 1731

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-2 are rejected under 35 U.S.C. 102(a) or (e) as being anticipated by Jobi et al (US 6,087,283). Jinbo discloses a thermal treatment apparatus as shown in figure 10. The claimed furnace refractory is deemed as element 407, the claimed stage is deemed as element 408 reciprocating up and down into and out of the furnace 407 as shown in figure 10 by its arrow of motion, the claimed heat generator is deemed as the burner 406, and the claimed driving section is deemed as being an inherent feature in order to move the stage as described in Col. 15, lines 40ff and which is capable of moving the stage to the claimed first and second positions.

As for claim 2, the claimed rotational driving section is deemed as an inherent feature in order to rotate the stage as described in Col. 15, lines 40ff.

In regards to the newly filed limitation of heat generator being provided on a surface of the furnace so as to surround the synthetic silica, it is deemed that the element 406 is provided on a surface of the refractory 407, at the very least on the

Art Unit: 1731

surface of refractory element 407 that surrounds the heat generator element 406. The claim only requires that the heat generator be on "a surface" but does not specify which surface. In the instant case, the surface of the refractory that surrounds the heat generator 406 is deemed as the claimed surface.

The claimed limitation that the heat generator surrounds the synthetic glass is deemed as the synthetic glass that is initially deposited on the stage 408. The heat generator 406 would surround the initial amount of deposited silica, due to the small size of silica initially deposited on the stage.

Response to Arguments

Applicant's arguments filed 12/20/06 have been fully considered but they are not persuasive.

In response to applicant's argument that Jingot's apparatus is for producing silica glass ingot and not a thermal treatment apparatus, a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim.

The arguments that the heat generator is not on a surface of the furnace or does not surround the synthetic silica are addressed in the above rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

Art Unit: 1731

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carlos Lopez whose telephone number is 571.272.1193. The examiner can normally be reached on Mon.-Fri. 8am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 571.272.1189. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/725,362

Art Unit: 1731

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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